


# TC-W255

## SERVICE MANUAL

US Model  
Canadian Model  
AEP Model  
E Model



Dolby noise reduction manufactured under license from  
Dolby Laboratories Licensing Corporation.  
"DOLBY" and the double-D symbol  are trademarks of  
Dolby Laboratories Licensing Corporation.

TC-W255 are a stereo double cassette deck in SEN-220,  
SEN-270, SEN-470, SEN-570 and SEN-670, respectively.

### SPECIFICATIONS

Recording system 4-track 2-channel stereo  
Frequency response


DOLBY NR OFF  
With TYPE IV cassette (Sony METAL-ES)  
30 – 15,000 Hz ( $\pm 3$  dB/DIN)  
With TYPE II cassette (Sony UX-S)  
30 – 14,000 Hz ( $\pm 3$  dB/DIN)  
With TYPE I cassette (Sony HF-S)  
30 – 13,000 Hz ( $\pm 3$  dB/DIN)

Wow and flutter 0.12% WRMS (NAB)  
 $\pm 0.2\%$  (DIN)


#### General

Dimensions Approx. 430 x 135 x 250 mm (w/h/d)  
(17 x 5 $\frac{3}{8}$  x 9 $\frac{7}{8}$  inches)  
incl. projecting parts and controls  
Weight Approx. 3 kg (6 lb 10 oz) net

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK  
 ON THE SCHEMATIC DIAGRAMS AND IN THE  
PARTS LIST ARE CRITICAL TO SAFE OPERATION.  
REPLACE THESE COMPONENTS WITH SONY PARTS  
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS  
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET  
UNE MARQUE  SUR LES DIAGRAMMES SCHÉ-  
MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES  
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-  
PLACER CES COMPOSANTS QUE PAR DES PIÈCES  
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE  
MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR  
SONY.



Tape Transport	DECK A	TCM-YM47CW-23
Mechanism Type	DECK B	TCM-YM47CW-24

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STEREO CASSETTE DECK  
**SONY**®

TC

## SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

## LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

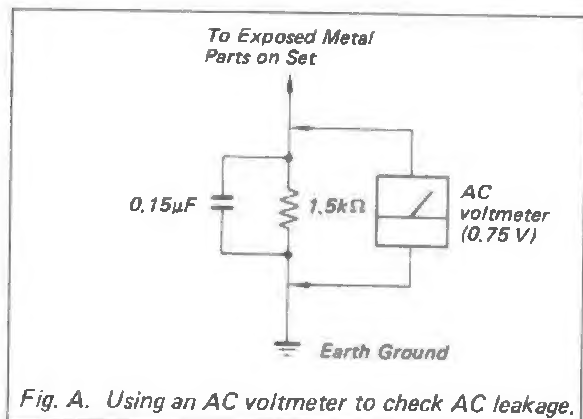
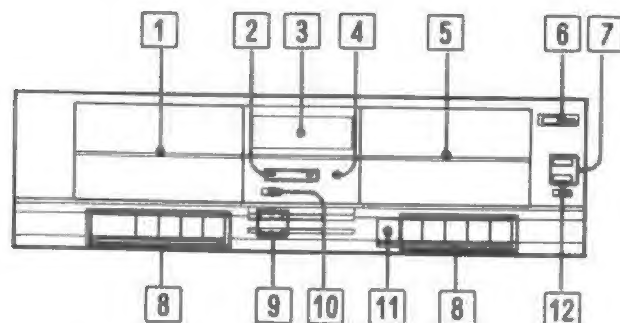


Fig. A. Using an AC voltmeter to check AC leakage.

## FUNCTION OF CONTROLS



## 1 Cassette holder (deck A)

## 2 SPEED indicators

HIGH or NORMAL lights up according to DUBBING SPEED setting.

## 3 PEAK LEVEL METERS

Show each channel's peak input level in recording as well as the recorded levels in playback. When both decks are played back, the meters show the level for deck A.

## 4 REC (record) indicator

Lights up during recording on the deck B.

## 5 Cassette holder (deck B)

## 6 COUNTER (tape counter) and RESET button (deck B)

Use the counter as a reference when searching for recorded materials. To reset the counter to zero, press RESET.

## 7 TAPE (DECK-B) selectors

Select the tape type used on deck B.

## 8 Tape operation buttons

- ▷ PLAY button
- ◀◀ REW (rewind) button
- ▶▶ FF (fast forward) button
- ▲ STOP/EJECT button
- || PAUSE button

## 9 REC LEVEL (recording level) controls (deck B only)

Adjust the recording level.


## 10 DUBBING SPEED selector

Depress for the high speed dubbing (H HIGH). Press again to return to the normal dubbing speed (N NORMAL).

## 11 ● REC (record) button

## 12 DOLBY NR switch

Depress to record or play back using the Dolby NR\* (Noise Reduction) system.

\* Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

# SECTION 1 ADJUSTMENTS

## 1-1. MECHANICAL ADJUSTMENTS PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

### Torque Measurement

Torque	Torquemeter	Meter reading
FWD	CQ-102C	30 – 70 g·cm (0.42 – 0.97 oz·inch)
FWD Back tension	CQ-102C	1.5 – 5.5 g·cm (0.020 – 0.076 oz·inch)
FF. REW	CQ-201B	63 g·cm or more 0.87 oz·inch)

## 1-2. ELECTRICAL ADJUSTMENTS

1. Demagnetize the record/playback and erase head with a head demagnetizer.
2. Do not use a magnetized screwdriver for the adjustments.
3. After the adjustments, apply suitable locking compound to the parts adjusted.
4. The adjustments should be performed with the rated power supply voltage unless otherwise noted.
5. The adjustments should be performed in the order given in this service manual. (As a general rule, playback circuit adjustment should be completed before performing recording circuit adjustment.)
6. The adjustments should be performed for both L-CH and R-CH.

### Test tape:

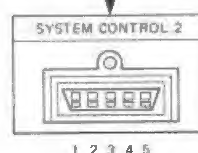
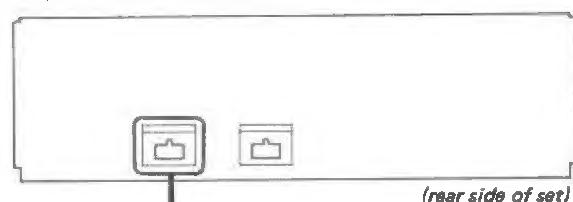
Type	Signal	Used for
P-4-A100	10 kHz, -10 dB	Head Azimuth Adjustment
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment
P-4-L300	315 Hz, 0 dB	Playback Level Adjustment

- Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch: OFF  
TAPE select switch: NORMAL  
(DECK-B)

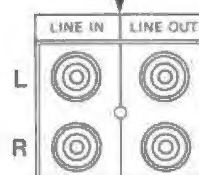
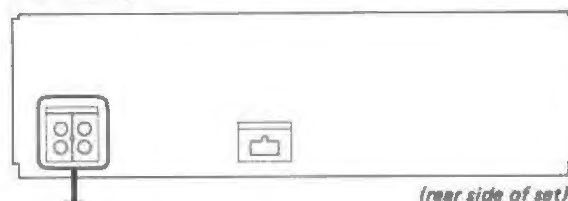
## LINE IN/OUT:

US, Canadian and E model

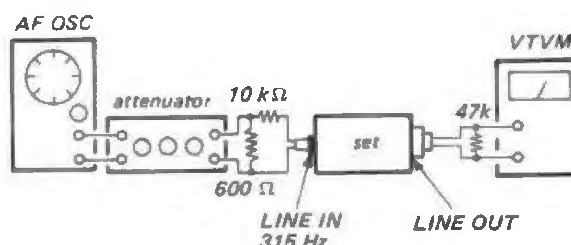


1. LINE IN – L-ch –
2. LINE OUT – L-ch –
3. GND
4. LINE OUT – R-ch –
5. LINE IN – R-ch –

AEP model



Mode: record



### Standard Input Level

	LINE IN
source impedance	10 kΩ
input level	0.25 V (-10 dB)

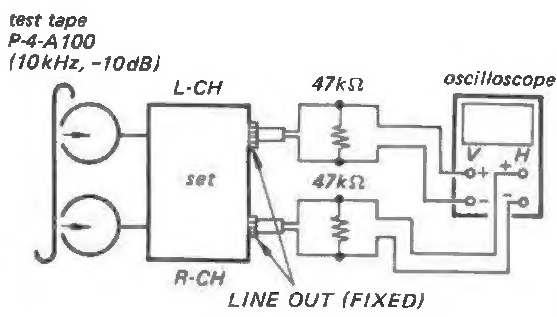
### Standard Output Level

	LINE OUT
load impedance	47 kΩ
output level	0.44 V (-5 dB)

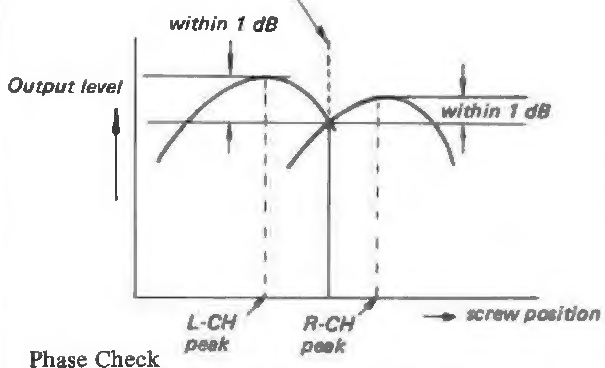
Record/Playback Head Azimuth Adjustment **DECK A**

Procedure: **DECK B**

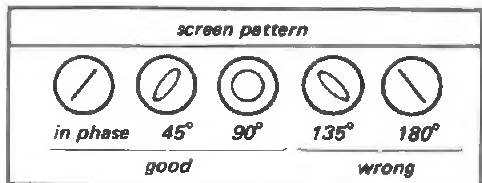
1. Mode: FWD playback



2. Turn the adjustment screw and check output peaks. If the peaks do not match for L-CH and R-CH, turn the adjustment screw so that outputs match within 1 dB of peak.

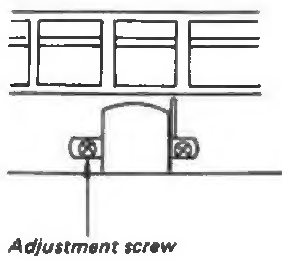


Phase Check



3. After the adjustments, apply suitable locking compound to the parts adjusted.

Adjustment Location:



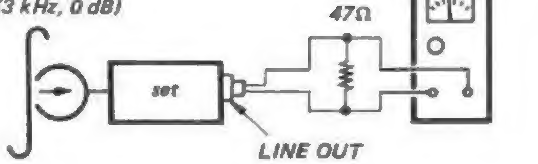
Adjustment screw

Tape Speed Adjustment **DECK A**

Procedure: **DECK B**

Mode: FWD playback

test tape  
WS-48A  
(3 kHz, 0 dB)



1. Connect pin to with the lead wire. (CN408)

Specification: high speed

Speed checker	Digital frequency counter
-0.5 - +0.5%	5,980 ± 30 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (90 Hz).

Adjustment location:

DECK-A side RV401

DECK-B side RV403

2. Remove the wire in step 1. (CN408)

Specification: normal speed

Speed checker	Digital frequency counter
-0.3 - +0.3%	2,980 ± 10 Hz

Frequency difference between the beginning and the end of the tape should be within 1.5% (45 Hz).

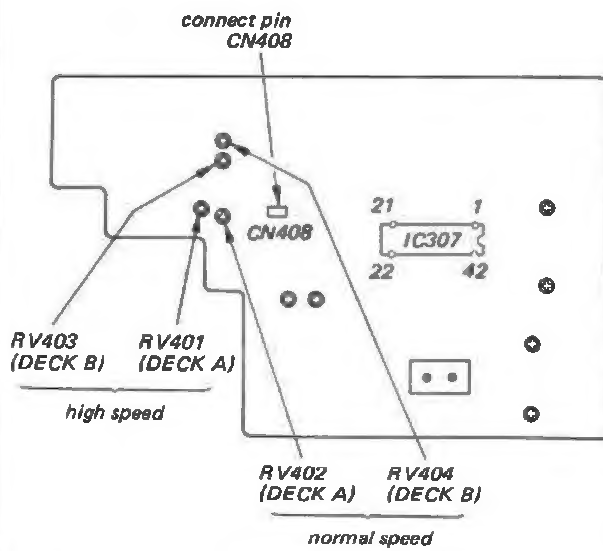
Adjustment location:

DECK-A side RV402

DECK-B side RV404

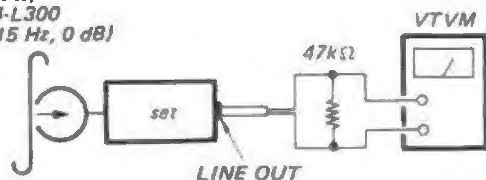
3. If the specifications are not satisfied, repeat step 1 and 2.

Adjustment Location: audio board



**Playback Level Adjustment****DECK A****Procedure:**

Mode: FWD playback

test tape  
P-4-L300  
(315 Hz, 0 dB)

Adjust,

DECK-A side RV101 (L-CH), RV201 (R-CH)

DECK-B side RV102 (L-CH), RV202 (R-CH)

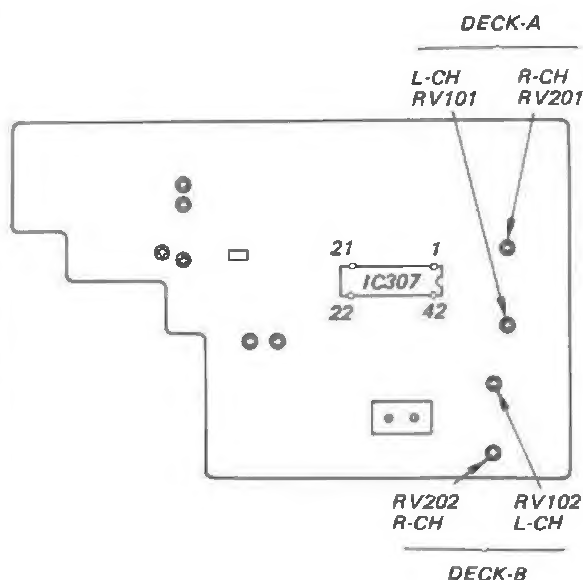
so that the specifications are satisfied.

**Specification:**

LINE OUT level: 0.44 V (-5 dB)

level difference between the channels:  
within 0.5 dB

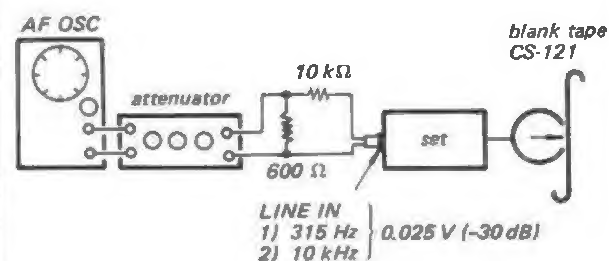
Adjustment Location: audio board

**Record BIAS Adjustment****DECK B****Setting:**

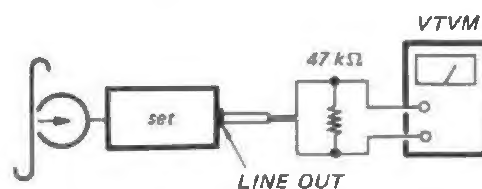
TAPE SELECT: NORMAL (DECK-B)

**Procedure:**

1. Mode: record



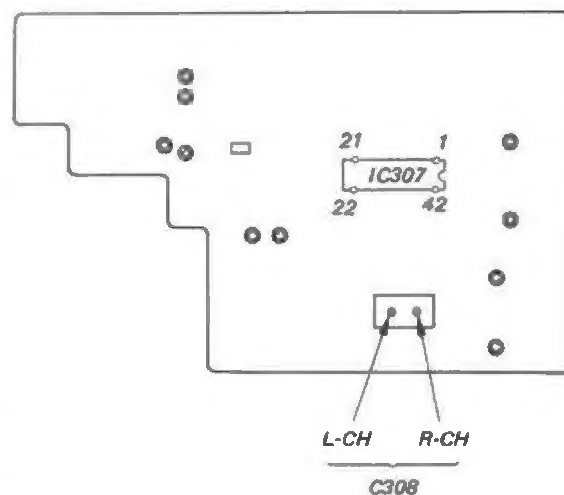
2. Mode: playback



Play back the tape recorded in step 1. If the specification is not satisfied, adjust C308 and repeat steps 1 and 2.

**Specification:**The LINE OUT level of 10 kHz signal relative to that of 315 Hz: 0 dB  $\pm$  0.5 dB.

Adjustment Location: audio board



**Record Level Adjustment**

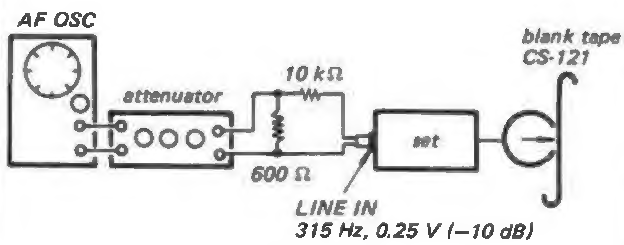
**DECK B**

**Setting:**

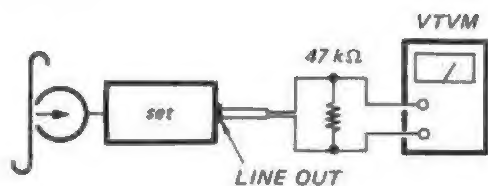
TAPE SELECT: NORMAL (DECK-B)

**Procedure:**

1. Mode: record



2. Mode: playback

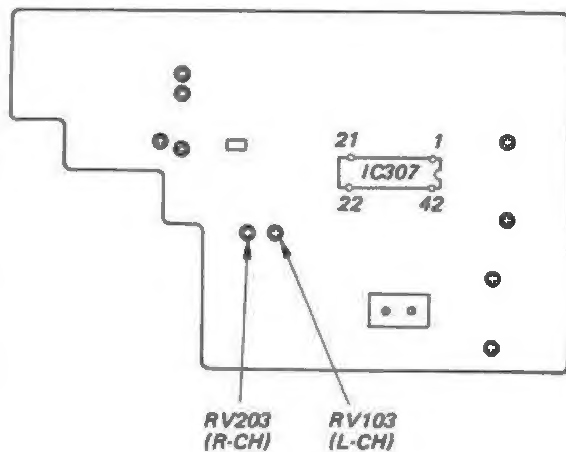


Play back the tape recorded in step 1. If the specification is not satisfied, adjust RV103 (L-CH), RV203 (R-CH) and repeat steps 1 and 2.

**Specification:**

LINE OUT level: -5 dB  $\pm$  0.5 dB

Adjustment Location: audio board



SE  
DI

● Semiconductor Lead Layouts

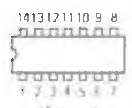
CXA1100P  
IR2E02




2SB1094-L  
2SD1585-K



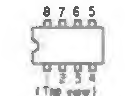
M4011BP  
M4030BP  
M4066BP  
M4073BP



2SC1815 BL



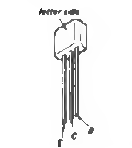
μPC4558C  
μPC4570C  
μPC4570C-1



10E2N  
1SS132




2SA1175



HZS11A1L  
HZS6A1L



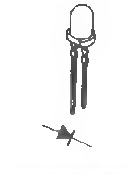
2SA1345  
2SA1348  
2SC634SP  
2SC3399  
2SC3402



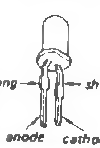
SEL1120W



SEL2510C



SEL2210W-C

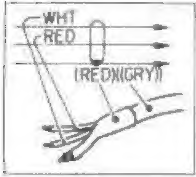


SECTION 2  
GRAMS

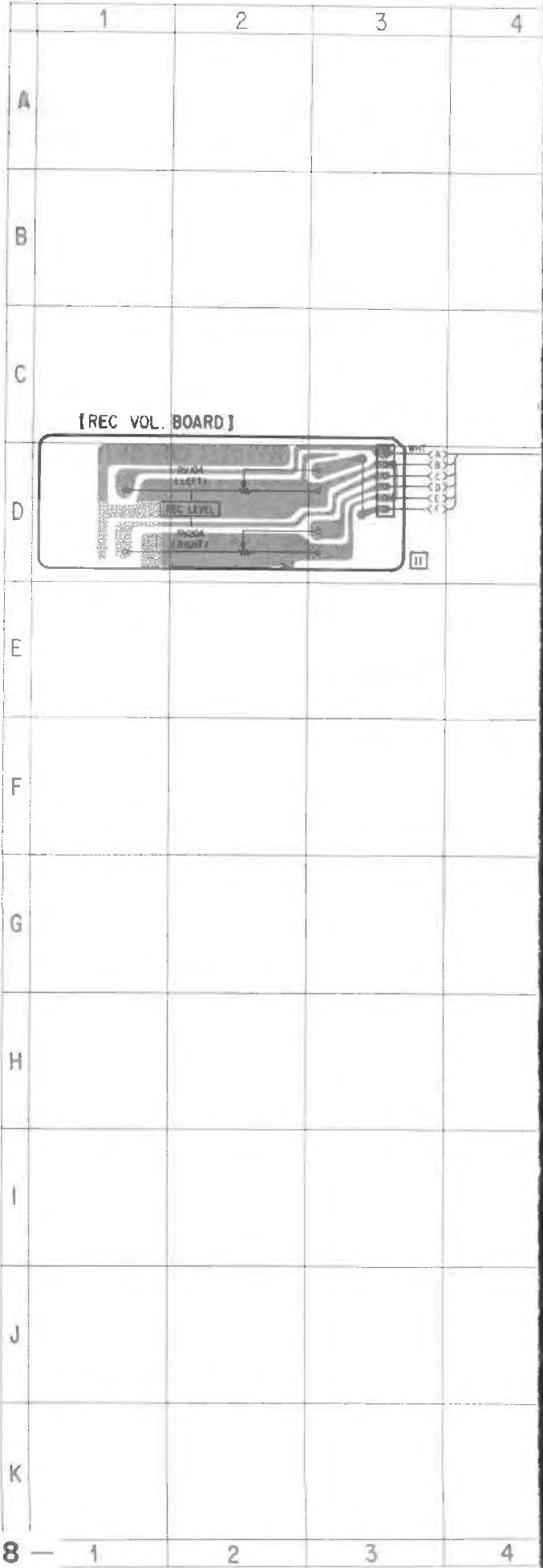
• Semiconductor Location

Ref. No.	Location	Ref. No.	Location
D101	B-19	Q101	C-7
D102	B-19	Q102	F-6
D103	B-19	Q103	F-6
D104	B-18	Q104	G-10
D105	B-18	Q105	I-14
D106	B-18	Q106	I-14
D107	B-17	Q201	D-7
D201	B-19	Q202	E-6
D202	B-19	Q203	E-6
D203	B-19	Q204	G-10
D204	B-18	Q205	I-14
D205	B-18	Q206	I-14
D206	B-18	Q302	G-8
D207	B-17	Q303	G-8
D301	G-8	Q304	H-9
D302	G-9	Q305	H-9
D401	C-14	Q306	G-8
D402	C-13	Q401	C-13
D403	C-13	Q402	C-13
D404	C-13	Q403	B-12
D405	D-13	Q404	D-13
D406	E-11	Q405	E-13
D407	E-11	Q406	E-14
D409	D-11	Q407	E-11
D411	D-11	Q408	C-11
D412	E-10	Q409	E-10
D413	E-11	Q410	F-11
D414	F-10	Q411	D-10
D415	D-10	Q412	E-11
D416	D-10	Q413	F-10
D417	E-10		
D418	F-10		
D419	F-10		
D420	F-10		
D421	E-11		
D422	K-9		
D423	K-10		
D424	K-8		
D425	D-10		
IC101	C-19		
IC201	C-18		
IC303	H-10		
IC304	F-5		
IC305	H-6		
IC306	D-5		
IC308	F-7		
IC309	G-5		
IC401	C-10		
IC402	E-10		
IC403	F-11		

Note:  
• Color code of sleeving over the end of the jacket.

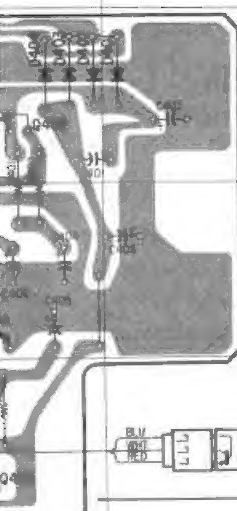


- ○ — : parts extracted from the component side.
- ● — : parts extracted from the conductor side.

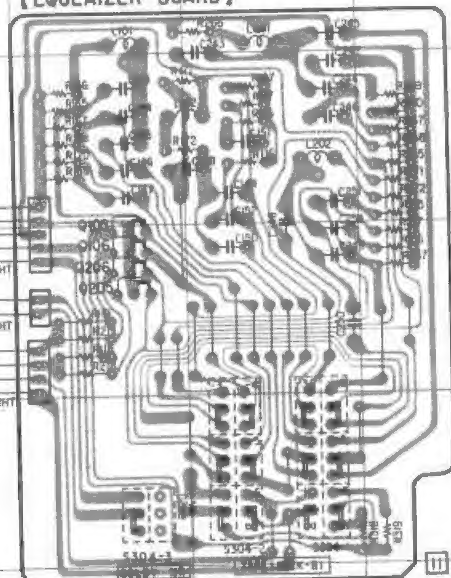
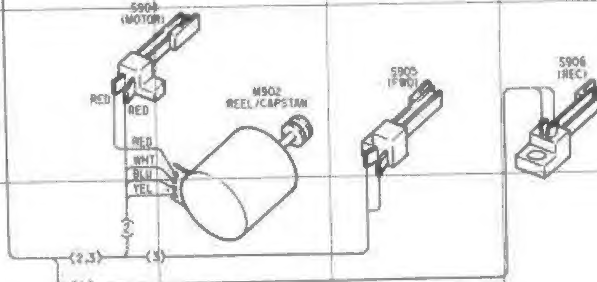








## DECK A



☐ ON ☒ OFF  
☐ ON ☒ OFF

TYPE I     $\Pi - \Pi$   
TYPE II     $\Pi - \Pi$   
TYPE IV     $\Pi$

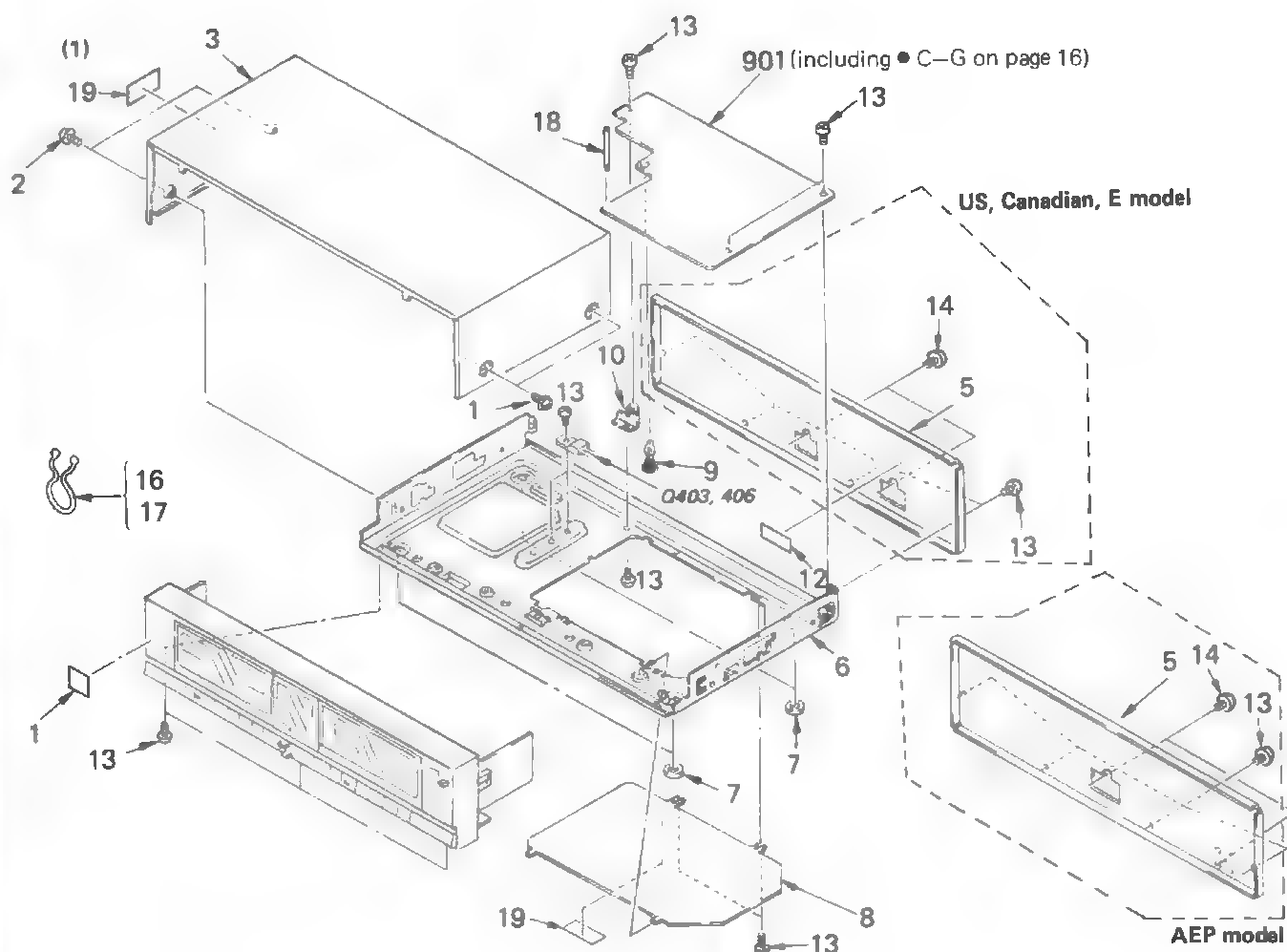
## SECTION 3

### EXPLODED VIEWS AND PARTS LIST

## NOTE:

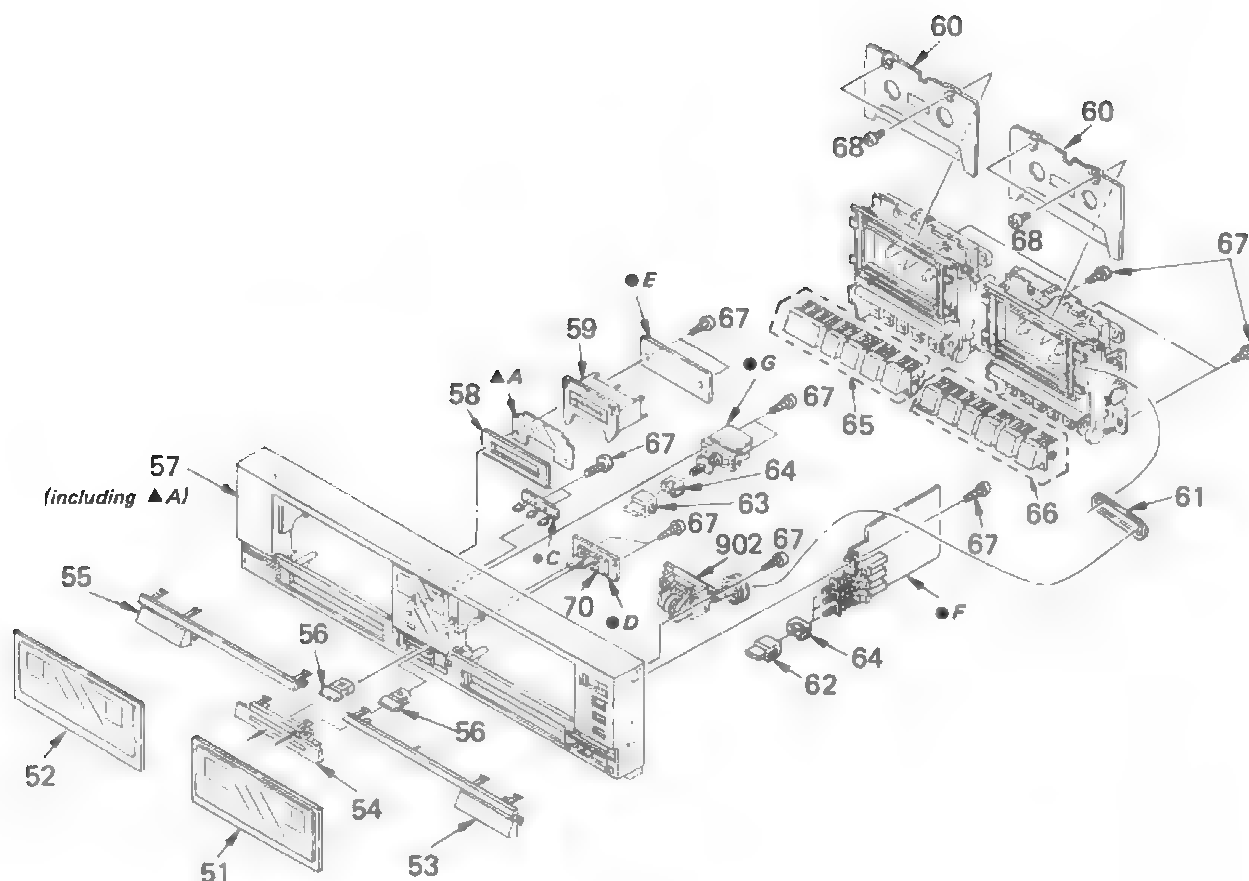
- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- The construction parts of an assembled part are indicated with a collation number in the remark column.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	3-703-710-41	STICKER, SONY SYMBOL (12)		13	7-682-148-01	SCREW +BVT 3X8 (S)	
2	7-682-147-09	SCREW, M3 CASE		14	7-685-146-14	SCREW +P 3X8 TYPE2 NON-SLIT	
3	3-332-437-01	CASE		16	2-056-666-00	PURSE LOCK (8 DIA.)	
5	*3-332-478-01	(US,Canadian,E)...PLATE, JACK		17	*3-703-321-01	PURSE LOCK (DIA. 16)	
	*3-332-478-11	(AEP).....PLATE, JACK		18	*3-683-631-01	CLAMP	
6	*3-332-438-01	CHASSIS		19	3-703-978-01	(US)...LABEL (A), FIRE CAUTION	
7	3-576-731-00	FELT (H)		901	*A-2056-361-A	(US,Canadian,E)...MOUNTED PCB, AUDIO	
8	*3-332-430-01	PLATE, BOTTOM			*A-2056-362-A	(AEP).....MOUNTED PCB, AUDIO	
9	*4-303-475-00	HOLDER, PC BOARD		Q403	8-729-107-26	TRANSISTOR 2SD1585-K	
10	*3-332-428-01	BRACKET (1), PC BOARD		Q406	8-729-111-67	TRANSISTOR 2SB1094-L	
12	3-701-030-00	LABEL, SERIAL NUMBER					

(2)

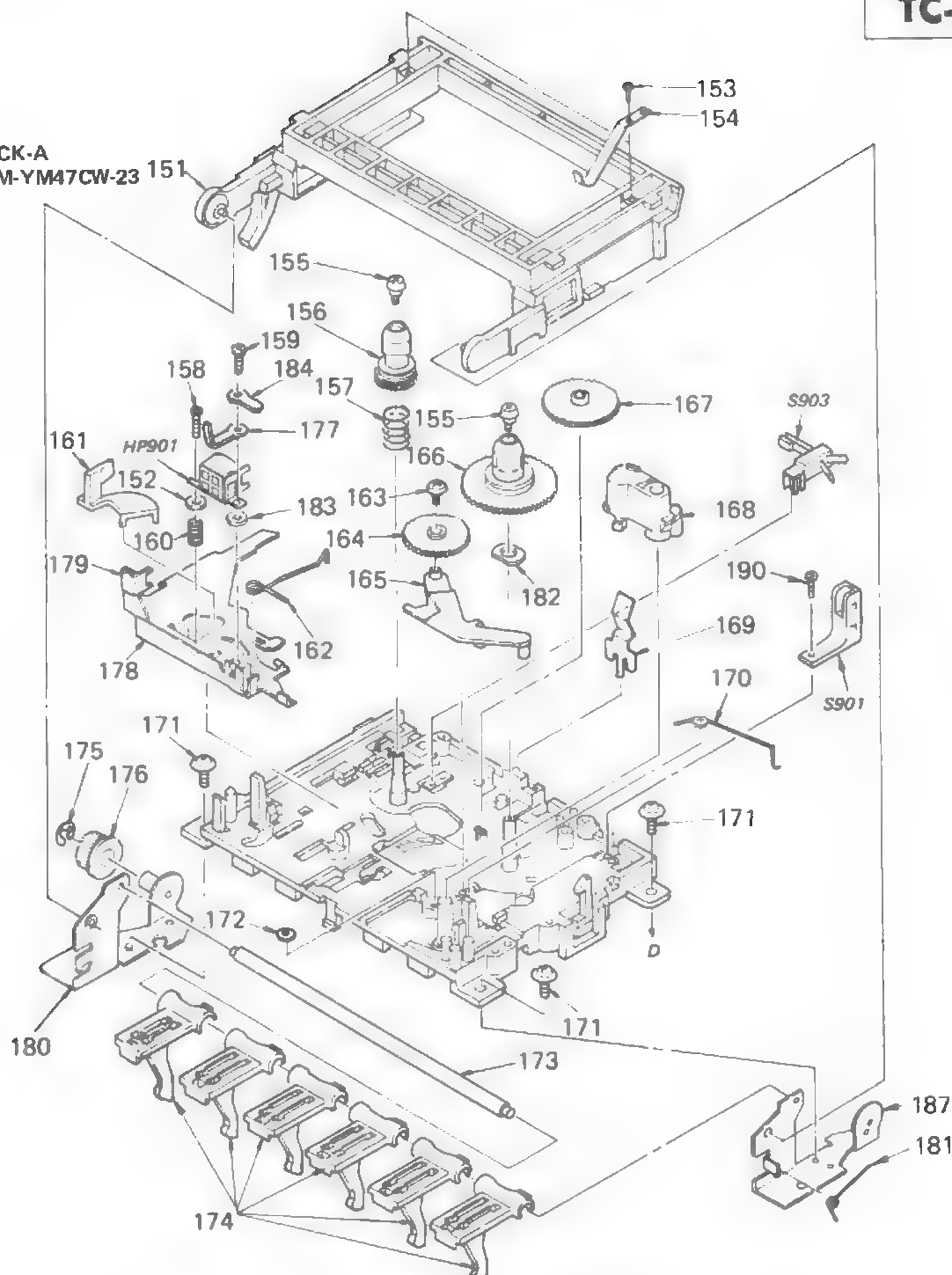


No.	Part No.	Description	Remarks
51	4-919-316-61	LID (B), CASSETTE	
52	4-919-316-51	LID (A), CASSETTE	
53	3-332-492-01	PLATE (B), ORNAMENTAL	
54	3-332-489-01	PLATE (D), ORNAMENTAL	
55	3-332-487-01	PLATE (A), ORNAMENTAL	
56	4-917-253-11	KNOB (B), SLIDE	
57	X-3332-459-1	PANEL ASSY	
58	*3-332-449-01	CUSHION, DISPLAY	
59	*3-332-551-01	HOLDER, LED	
60	4-914-974-01	PLATE, ORNAMENTAL, CASSETTE	

No.	Part No.	Description	Remarks
61	3-530-181-XX	BELT, DETCTING	
62	3-318-909-11	KNOB, PUSH	
64	*4-864-307-00	RING	
65	4-916-840-11	BUTTON BLOCK (A), CONTROL	
66	4-916-841-11	BUTTON BLOCK (B), CONTROL	
67	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
68	7-685-133-19	SCREW +P 2.6X6 TYPE2 NON-SLIT	
70	*3-332-490-01	PLATE, SHIELD	
902	1-548-596-21	COUNTER, TAPE (MIDDLE TYPE)	

(3) DECK-A

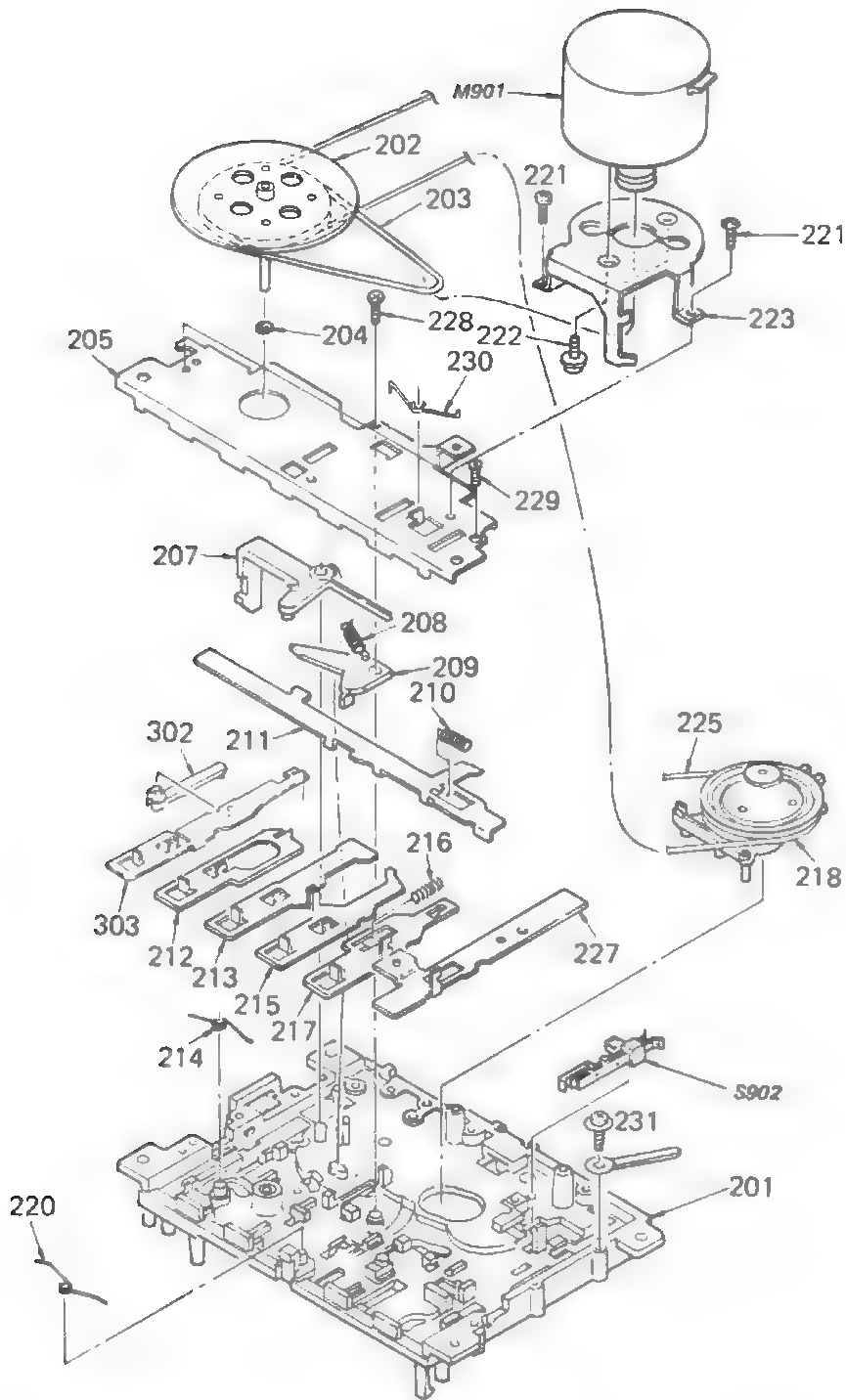
TCM-YM47CW-23 151



No.	Part No.	Description	Remarks
151	3-390-801-01	CASE, CASSETTE	
152	3-390-823-01	WASHER, F	
153	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
154	4-894-951-01	KEEP PLATE	
155	3-390-803-01	BUSHING (D)	
156	4-894-953-01	S REEL	
157	4-894-954-01	C SPRING	
158	7-621-905-65	SCREW, TOTSU P 2X8	
159	7-621-255-15	SCREW +P 2X3	
160	4-894-955-01	C SPRING	
161	4-894-956-01	TAPE SENSOR	
162	3-390-804-01	SPRING, PINCH ARM	
163	4-894-960-01	BUSH	
164	4-894-961-01	IDLER GEAR	
165	4-894-962-01	IDLER ARM	
166	4-894-963-01	T REEL ASSY	
167	4-894-964-01	F GEAR	
168	3-390-805-01	ROLLER ASSY, PINCH	
169	4-894-966-01	SPRING	
170	4-894-967-01	SPRING	

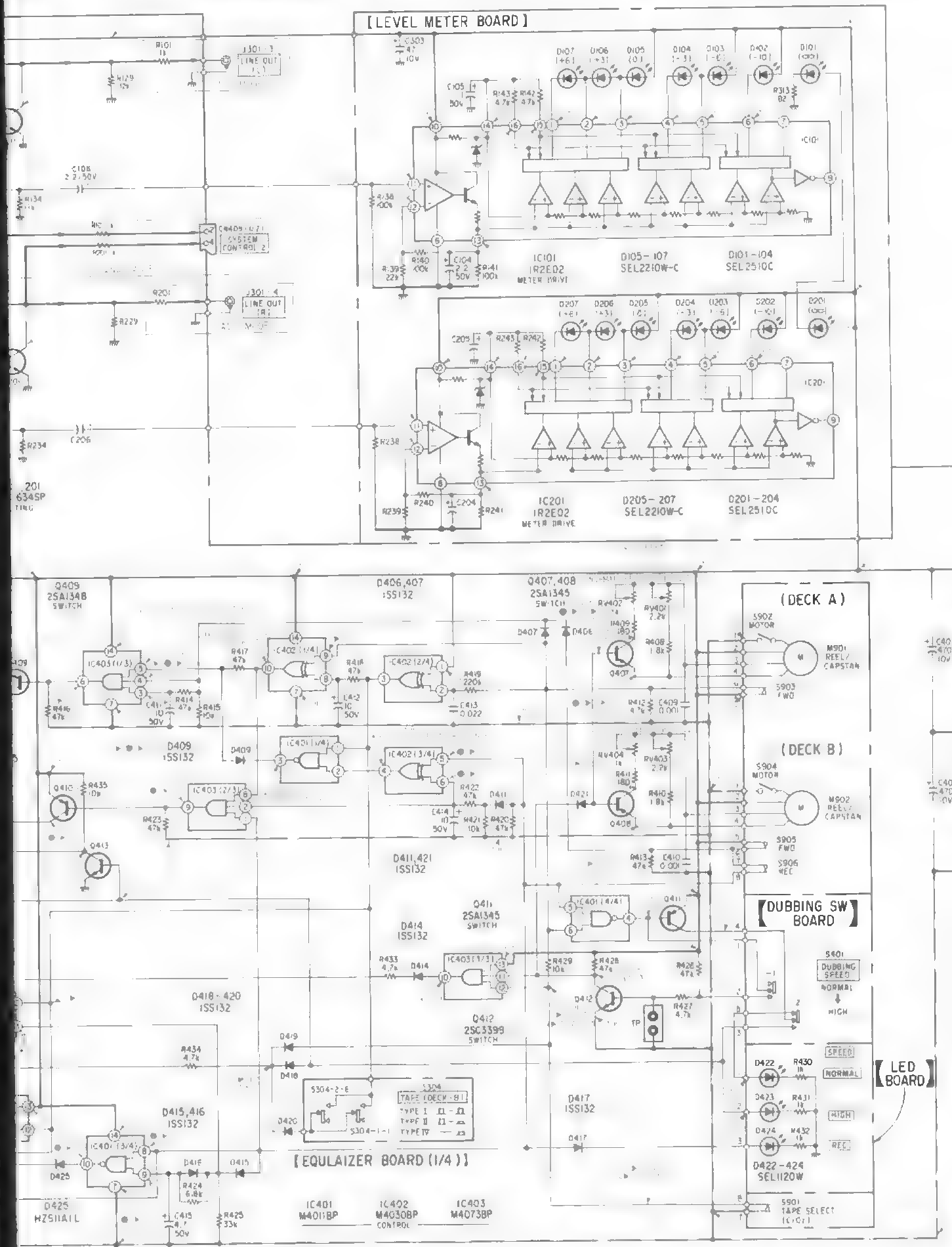
No.	Part No.	Description	Remarks
171	7-687-501-31	SCREW, TOTSU PTTWH 2.6X6	
172	4-894-969-01	N WASHER	
173	*4-894-970-01	BUTTON SHAFT W	
174	4-894-971-01	BUTTON LEVER	
175	7-624-106-04	STOP RING 3.0, TYPE -E	
176	4-895-001-01	GEAR	
177	3-390-817-01	LUG	
178	4-895-015-01	HEAD BASE	
179	4-895-016-01	TAPE GUIDE	
180	*4-894-972-01	BUTTON BRACKET R	
181	4-894-973-01	SPRING	
182	3-390-820-01	SPRING, LEAF	
183	3-390-821-01	SPACER	
184	3-390-819-01	LUG	
187	*4-895-017-01	BUTTON BRACKET L ASSY	
190	7-685-133-19	SCREW +P 2.6X6 TYPE1	
HP901	1-543-424-11	HEAD, MAGNETIC (REC/PB)	
S901	1-571-036-11	SWITCH, LEAF (DETECTION SW)	
S903	1-570-716-11	SWITCH, LEAF (FWD)	

(4) DECK-A



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	4-894-968-01	CHASSIS ASSY		217	3-390-810-01	LEVER, PLAY	
202	3-390-806-01	FW ASSY		218	4-894-997-01	POWER ARM ASSY	
203	3-390-807-01	BELT		220	4-894-999-01	SPRING	
204	4-894-976-01	WASHER		221	7-685-781-04	SCREW +PTT 2X4 (S)	
205	*4-894-977-01	BACK PLATE		222	7-628-253-90	SCREW +PS 2.6X4	
207	*4-894-980-01	EJECT ARM		223	*3-390-814-01	BRACKET, MOTOR	
208	3-390-809-01	SPRING		225	3-390-816-01	BELT, SQUARE	
209	4-894-982-01	S ARM		227	*4-894-994-01	REC LEVER	
210	4-894-983-01	C SPRING		228	3-390-822-01	BUSHING (C)	
211	*4-894-984-01	FUNCTION LEVER		229	7-685-133-19	SCREW +P 2.6X6 TYPE1	
212	4-894-987-01	S.E LEVER		230	4-894-978-01	SPRING	
213	*4-894-988-01	FF LEVER W		231	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
214	4-894-989-01	SPRING		302	*4-894-985-01	PAUSE ARM	
215	*4-894-990-01	REW LEVER		303	4-894-986-01	PAUSE LEVER	
216	3-390-827-01	SPRING		M901	X-3390-801-1	MOTOR ASSY	
				S902	1-570-715-11	SWITCH, LEAF (MOTOR)	







## [AUDIO BOARD]

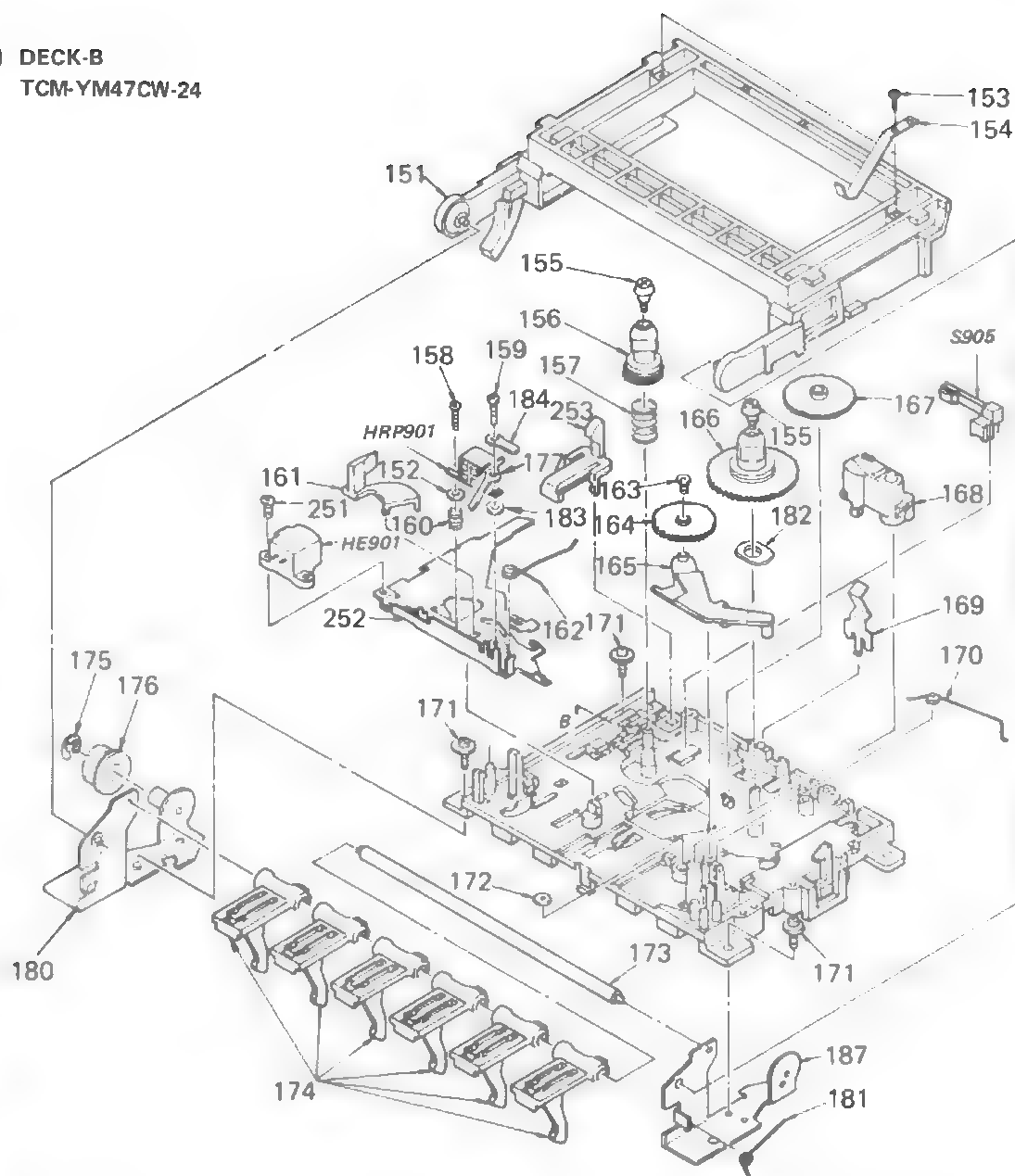






## 【AUDIO BOARD】

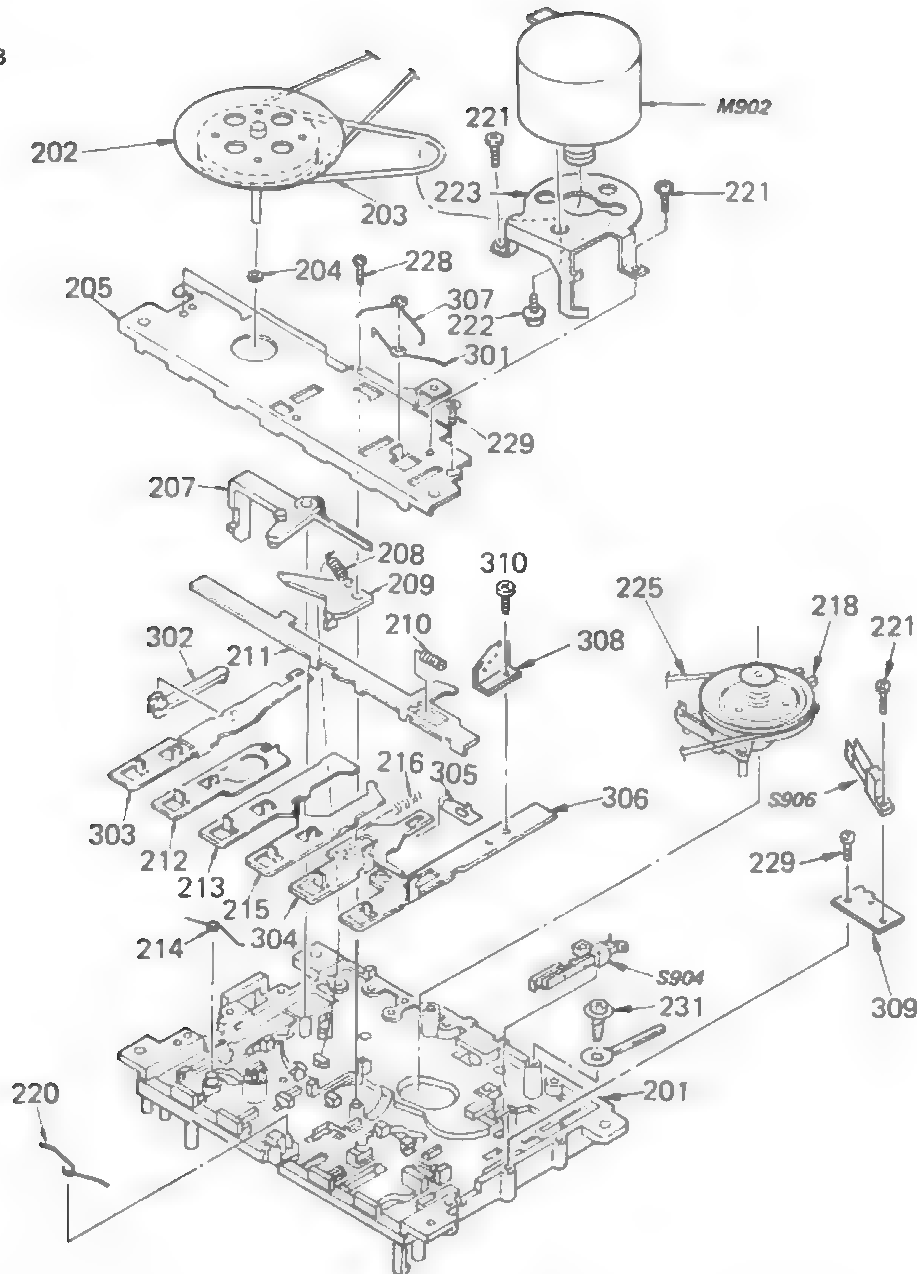
(5) DECK-B  
TCM-YM47CW-24



No.	Part No.	Description	Remarks
151	3-390-801-01	CASE, CASSETTE	
152	3-390-823-01	WASHER, F	
153	7-685-103-19	SCREW +P 2X5 TYPE2 NON-SLIT	
154	4-894-951-01	KEEP PLATE	
155	3-390-803-01	BUSHING (D)	
156	4-894-953-01	S REEL	
157	4-894-954-01	C SPRING	
158	7-621-905-65	SCREW, TOTSU P 2X8	
159	7-621-255-15	SCREW +P 2X3	
160	4-894-955-01	C SPRING	
161	4-894-956-01	TAPE SENSOR	
162	3-390-804-01	SPRING, PINCH ARM	
163	4-894-960-01	BUSH	
164	4-894-961-01	IDLER GEAR	
165	4-894-962-01	IDLER ARM	
166	4-894-963-01	T REEL ASSY	
167	4-894-964-01	F GEAR	
168	3-390-805-01	ROLLER ASSY, PINCH	
169	4-894-965-01	SPRING	
170	4-894-967-01	SPRING	

No.	Part No.	Description	Remarks
171	7-687-501-31	SCREW, TOTSU PITWH 2.6X6	
172	4-894-969-01	N WASHER	
173	*4-894-970-01	BUTTON SHAFT W	
174	4-894-971-01	BUTTON LEVER	
175	7-624-106-04	STOP RING 3.0, TYPE -E	
176	4-895-001-01	GEAR	
177	3-390-817-01	LUG	
180	*4-894-972-01	BUTTON BRACKET R	
181	4-894-973-01	SPRING	
182	3-390-820-01	SPRING, LEAF	
183	3-390-821-01	SPACER	
184	3-390-819-01	LUG	
187	*4-895-017-01	BUTTON BRACKET L ASSY	
251	7-685-852-01	SCREW +BVTT 2X5 (S)	
252	4-894-957-01	HEAD BASE B	
253	4-894-958-01	INTERLOCK ARM	
HE909	1-543-261-11	HEAD, ERASE (886-01-24)	
HRP901	1-543-424-11	HEAD, MAGNETIC (REC/PB)	
S905	1-570-716-11	SWITCH, LEAF (FWD)	

(6) DECK-B



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
201	4-894-968-01	CHASSIS ASSY		223	*3-390-814-01	BRACKET, MOTOR	
202	3-390-806-01	FW ASSY		225	3-390-816-01	BELT, SQUARE	
203	3-390-807-01	BELT		228	3-390-822-01	BUSHING (C)	
204	4-894-976-01	P WASHER		229	7-685-133-19	SCREW +P 2.6X6 TYPE1	
205	*4-894-977-01	BACK PLATE		230	4-894-978-01	SPRING	
207	*4-894-980-01	EJECT ARM		231	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
208	3-390-809-01	SPRING		301	4-894-979-01	SPRING	
209	4-894-982-01	S ARM		302	*4-894-985-01	PAUSE ARM	
210	4-894-983-01	C SPRING		303	4-894-986-01	PAUSE LEVER	
211	*4-894-984-01	FUNCTION LEVER		304	3-390-810-01	LEVER, PLAY	
212	4-894-987-01	S.E LEVER		305	3-390-811-01	LEVER, REC STOP	
213	*4-894-988-01	FF LEVER W		306	*4-894-994-01	REC LEVER	
214	4-894-989-01	SPRING		308	*3-390-828-01	LEVER, RSW	
215	*4-894-990-01	REW LEVER		309	*3-390-829-01	BRACKET, ■	
218	4-894-997-01	POWER ARM ASSY		310	7-685-791-04	SCREW +PTT 2.6X5 (S)	
220	4-894-999-01	SPRING		M902	X-3390-801-1	MOTOR ASSY	
221	7-685-781-04	SCREW +PTT 2X4 (S)		S904	1-570-715-11	SWITCH, LEAF (MOTOR)	
222	7-628-253-90	SCREW +PS 2.6X4		S906	1-571-037-11	SWITCH, LEAF (REC SW)	

SECTION 4  
ELECTRICAL PARTS LIST

NOTE:

- Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

MF:µF, PF:pµF.

RESISTORS

- All resistors are in ohms.
- F : nonflammable

COILS

MMH : mH, UH : µH

SEMICONDUCTORS

In each case, U : v, for example:

UA....: µA..., UPA....: µPA..., UPC....: µPC,  
UPD....: µPD...

ELECTRICAL PARTS						
Ref.No.	Part No.	Description				
901	*A-2056-361-A	(US,Canadian,E)...MOUNTED PCB, AUDIO				
	*A-2056-362-A	(AEP).....MOUNTED PCB, AUDIO				
902	1-548-596-21	COUNTER, TAPE (MIDDLE TYPE)				
C103	1-124-925-11	ELECT	2.2MF	20%	50V	
C104	1-124-925-11	ELECT	2.2MF	20%	50V	
C105	1-124-791-11	ELECT	1MF	20%	50V	
C106	1-124-925-11	ELECT	2.2MF	20%	50V	
C107	1-162-290-31	CERAMIC	470PF	10%	50V	
C108	1-162-282-31	CERAMIC	100PF	10%	50V	
C109	1-136-157-00	FILM	0.022MF	5%	50V	
C110	1-124-767-00	ELECT	2.2MF	20%	50V	
C114	1-124-925-11	ELECT	2.2MF	20%	50V	
C117	1-124-767-00	ELECT	2.2MF	20%	50V	
C118	1-136-175-00	FILM	0.68MF	5%	50V	
C127	1-124-925-11	ELECT	2.2MF	20%	50V	
C128	1-136-440-11	FILM	39PF	5%	630V	
C129	1-162-290-31	CERAMIC	470PF	10%	50V	
C130	1-162-282-31	CERAMIC	100PF	10%	50V	
C131	1-136-157-00	FILM	0.022MF	5%	50V	
C132	1-162-284-31	CERAMIC	150PF	10%	50V	
C133	1-136-273-91	FILM	75PF	5%	630V	
C134	1-161-377-00	CERAMIC	0.0047MF	30%	16V	
C135	1-161-327-00	CERAMIC	0.0033MF	30%	16V	
C138	1-162-289-31	CERAMIC	390PF	10%	50V	
C139	1-124-927-11	ELECT	4.7MF	20%	50V	
C140	1-124-446-11	ELECT	47MF	20%	10V	
C141	1-123-875-91	ELECT	10MF	20%	50V	
C142	1-136-159-00	FILM	0.033MF	5%	50V	
C143	1-136-153-00	FILM	0.01MF	5%	50V	
C144	1-130-474-00	MYLAR	0.0018MF	5%	50V	
C145	1-110-201-00	MYLAR	0.0033MF	5%	50V	
C146	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C147	1-136-154-00	FILM	0.012MF	5%	50V	
C148	1-130-478-00	MYLAR	0.0039MF	5%	50V	
C149	1-130-471-00	MYLAR	0.001MF	5%	50V	
C150	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C151	1-130-478-00	MYLAR	0.0039MF	5%	50V	
C152	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C153	1-124-767-00	ELECT	2.2MF	20%	50V	
C203	1-124-925-11	ELECT	2.2MF	20%	50V	
C204	1-124-925-11	ELECT	2.2MF	20%	50V	
C205	1-124-791-11	ELECT	1MF	20%	50V	
C206	1-124-925-11	ELECT	2.2MF	20%	50V	
C207	1-162-290-31	CERAMIC	470PF	10%	50V	
C208	1-162-282-31	CERAMIC	100PF	10%	50V	

ELECTRICAL PARTS						
Ref.No.	Part No.	Description				
C209	1-136-157-00	FILM	0.022MF	5%	50V	
C210	1-124-767-00	ELECT	2.2MF	20%	50V	
C214	1-124-925-11	ELECT	2.2MF	20%	50V	
C217	1-124-767-00	ELECT	2.2MF	20%	50V	
C218	1-136-175-00	FILM	0.68MF	5%	50V	
C227	1-124-925-11	ELECT	2.2MF	20%	50V	
C228	1-136-440-11	FILM	39PF	5%	630V	
C229	1-162-290-31	CERAMIC	470PF	10%	50V	
C230	1-162-282-31	CERAMIC	100PF	10%	50V	
C231	1-136-157-00	FILM	0.022MF	5%	50V	
C232	1-162-284-31	CERAMIC	150PF	10%	50V	
C233	1-136-273-91	FILM	75PF	5%	630V	
C234	1-161-377-00	CERAMIC	0.0047MF	30%	16V	
C235	1-161-327-00	CERAMIC	0.0033MF	30%	16V	
C238	1-162-289-31	CERAMIC	390PF	10%	50V	
C239	1-124-927-11	ELECT	4.7MF	20%	50V	
C240	1-124-446-11	ELECT	47MF	20%	10V	
C241	1-123-875-91	ELECT	10MF	20%	50V	
C242	1-136-159-00	FILM	0.033MF	5%	50V	
C243	1-136-153-00	FILM	0.01MF	5%	50V	
C244	1-130-474-00	MYLAR	0.0018MF	5%	50V	
C245	1-110-201-00	MYLAR	0.0033MF	5%	50V	
C246	1-130-480-00	MYLAR	0.0056MF	5%	50V	
C247	1-136-154-00	FILM	0.012MF	5%	50V	
C248	1-130-478-00	MYLAR	0.0039MF	5%	50V	
C249	1-130-471-00	MYLAR	0.001MF	5%	50V	
C250	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C251	1-130-478-00	MYLAR	0.0039MF	5%	50V	
C252	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C253	1-124-767-00	ELECT	2.2MF	20%	50V	
C303	1-124-446-11	ELECT	47MF	20%	10V	
C304	1-124-444-00	ELECT	220MF	20%	10V	
C305	1-124-444-00	ELECT	220MF	20%	10V	
C306	1-124-446-11	ELECT	47MF	20%	10V	
C307	1-124-446-11	ELECT	47MF	20%	10V	
C308	1-141-225-00	CAP, TUNING, TRIMAR				
C309	1-124-791-11	ELECT	1MF	20%	50V	
C310	1-124-925-11	ELECT	2.2MF	20%	50V	
C311	1-130-295-00	FILM	0.0082MF	5%	100V	
C312	1-130-287-00	FILM	0.0039MF	5%	100V	
C313	1-130-287-00	FILM	0.0039MF	5%	100V	
C314	1-124-902-00	ELECT	0.47MF	20%	50V	
C315	1-124-791-11	ELECT	1MF	20%	50V	
C316	1-124-446-11	ELECT	47MF	20%	10V	
C317	1-124-446-11	ELECT	47MF	20%	10V	

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C318	1-124-444-00	ELECT	220MF	20%	10V
C319	1-124-444-00	ELECT	220MF	20%	10V
C320	1-129-713-00	FILM	0.0082MF	10%	630V
C321	1-162-294-31	CERAMIC	0.001MF	10%	50V
C322	1-162-294-31	CERAMIC	0.001MF	10%	50V
C323	1-161-494-00	CERAMIC	0.022MF		25V
C401	1-126-105-11	ELECT	1000MF	20%	35V
C402	1-124-555-00	ELECT	1000MF	20%	16V
C403	1-124-555-00	ELECT	1000MF	20%	16V
C404	1-124-445-00	ELECT	100MF	20%	16V
C405	1-124-445-00	ELECT	100MF	20%	16V
C406	1-124-446-11	ELECT	47MF	20%	10V
C407	1-124-472-11	ELECT	470MF	20%	10V
C408	1-124-472-11	ELECT	470MF	20%	10V
C409	1-162-294-31	CERAMIC	0.001MF	10%	50V
C410	1-162-294-31	CERAMIC	0.001MF	10%	50V
C411	1-123-875-91	ELECT	10MF	20%	50V
C412	1-123-875-91	ELECT	10MF	20%	50V
C413	1-161-494-00	CERAMIC	0.022MF		25V
C414	1-123-875-91	ELECT	10MF	20%	50V
C415	1-124-927-11	ELECT	4.7MF	20%	50V
CN308	*1-564-507-11	PLUG, CONNECTOR 4P			
CN309	*1-564-509-11	PLUG, CONNECTOR 6P			
CN310	*1-564-505-11	PLUG, CONNECTOR 2P			
CN401	*1-564-511-11	PLUG, CONNECTOR 8P			
CN402	*1-564-511-21	PLUG, CONNECTOR 8P			
CN406	1-562-067-00	SOCKET, CONNECTOR 5P			
CN408	*1-564-505-21	PLUG, CONNECTOR 2P			
CN409	1-562-067-00	(US,Canadian,E)...SOCKET, CONNECTOR 5P			
D101	8-719-303-00	DIODE SEL2510C			
D102	8-719-303-00	DIODE SEL2510C			
D103	8-719-303-00	DIODE SEL2510C			
D104	8-719-303-00	DIODE SEL2510C			
D105	8-719-302-74	DIODE SEL2210W-C			
D106	8-719-302-74	DIODE SEL2210W-C			
D107	8-719-302-74	DIODE SEL2210W-C			
D201	8-719-303-00	DIODE SEL2510C			
D202	8-719-303-00	DIODE SEL2510C			
D203	8-719-303-00	DIODE SEL2510C			
D204	8-719-303-00	DIODE SEL2510C			
D205	8-719-302-74	DIODE SEL2210W-C			
D206	8-719-302-74	DIODE SEL2210W-C			
D207	8-719-302-74	DIODE SEL2210W-C			
D301	8-719-940-76	DIODE 1SS132			
D302	8-719-940-76	DIODE 1SS132			
D401	8-719-200-77	DIODE 10E2N			
D402	8-719-200-77	DIODE 10E2N			
D403	8-719-200-77	DIODE 10E2N			
D404	8-719-200-77	DIODE 10E2N			
D405	8-719-933-33	DIODE HZS6A1L			
D406	8-719-940-76	DIODE 1SS132			
D407	8-719-940-76	DIODE 1SS132			
D409	8-719-940-76	DIODE 1SS132			
D411	8-719-940-76	DIODE 1SS132			
D412	8-719-940-76	DIODE 1SS132			
D414	8-719-940-76	DIODE 1SS132			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
D415	8-719-940-76	DIODE 1SS132			
D416	8-719-940-76	DIODE 1SS132			
D417	8-719-940-76	DIODE 1SS132			
D418	8-719-940-76	DIODE 1SS132			
D419	8-719-940-76	DIODE 1SS132			
D420	8-719-940-76	DIODE 1SS132			
D421	8-719-940-76	DIODE 1SS132			
D422	8-719-303-24	DIODE SEL1120W			
D423	8-719-303-24	DIODE SEL1120W			
D424	8-719-303-24	DIODE SEL1120W			
D425	8-719-933-63	DIODE HZS11A1L			
HE909	1-543-261-11	HEAD, ERASE (886-01-24)			
HP901	1-543-424-11	HEAD, MAGNETIC (REC/PB)			
HRP901	1-543-424-11	HEAD, MAGNETIC (REC/PB)			
IC101	8-759-912-79	IC 1R2E02			
IC201	8-759-912-79	IC 1R2E02			
IC303	8-759-106-41	IC UPC4570C			
IC304	8-759-111-44	IC UPC4570C-1			
IC305	8-759-111-44	IC UPC4570C-1			
IC306	8-759-145-58	IC UPC4558C			
IC308	8-752-031-67	IC CXA1100P			
IC309	8-759-601-43	IC M4066BP			
IC401	8-759-601-10	IC M4011BP			
IC402	8-759-601-29	IC M4030BP			
IC403	8-759-601-48	IC M4073BP			
J301	1-507-908-11	(AEP)...JACK, PIN 4P (LINE IN/OFF)			
L101	1-410-775-11	MICRO INDUCTOR 10MMH			
L102	1-410-775-11	MICRO INDUCTOR 10MMH			
L103	1-410-780-11	MICRO INDUCTOR 27MMH			
L201	1-410-775-11	MICRO INDUCTOR 10MMH			
L202	1-410-775-11	MICRO INDUCTOR 10MMH			
L203	1-410-780-11	MICRO INDUCTOR 27MMH			
LPF101	1-235-980-11	FILTER, LOW PASS			
LPF201	1-235-980-11	FILTER, LOW PASS			
M901	X-3390-801-1	MOTOR ASSY			
M902	X-3390-801-1	MOTOR ASSY			
Q101	8-729-600-27	TRANSISTOR 2SC634SP			
Q102	8-729-806-38	TRANSISTOR 2SC3399			
Q103	8-729-806-38	TRANSISTOR 2SC3399			
Q104	8-729-600-27	TRANSISTOR 2SC634SP			
Q105	8-729-600-27	TRANSISTOR 2SC634SP			
Q106	8-729-600-27	TRANSISTOR 2SC634SP			
Q201	8-729-600-27	TRANSISTOR 2SC634SP			
Q202	8-729-806-38	TRANSISTOR 2SC3399			
Q203	8-729-806-38	TRANSISTOR 2SC3399			
Q204	8-729-600-27	TRANSISTOR 2SC634SP			
Q205	8-729-600-27	TRANSISTOR 2SC634SP			
Q206	8-729-600-27	TRANSISTOR 2SC634SP			
Q302	8-729-600-27	TRANSISTOR 2SC634SP			
Q303	8-729-600-27	TRANSISTOR 2SC634SP			
Q304	8-729-281-54	TRANSISTOR 2SC1815BL			
Q305	8-729-117-54	TRANSISTOR 2SA1175			
Q306	8-729-806-28	TRANSISTOR 2SC3402			
Q401	8-729-600-27	TRANSISTOR 2SC634SP			



ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q402	8-729-600-27	TRANSISTOR	2SC634SP		
Q403	8-729-107-26	TRANSISTOR	2SD1585-K		
Q404	8-729-117-54	TRANSISTOR	2SA1175		
Q405	8-729-117-54	TRANSISTOR	2SA1175		
Q406	8-729-111-67	TRANSISTOR	2SB1094-L		
Q407	8-729-806-20	TRANSISTOR	2SA1345		
Q408	8-729-806-20	TRANSISTOR	2SA1345		
Q409	8-729-159-01	TRANSISTOR	2SA1348		
Q410	8-729-806-20	TRANSISTOR	2SA1345		
Q411	8-729-806-20	TRANSISTOR	2SA1345		
Q412	8-729-806-38	TRANSISTOR	2SC3399		
Q413	8-729-806-38	TRANSISTOR	2SC3399		
R101	1-249-417-11	CARBON	1K	5%	1/6W
R102	1-249-435-11	CARBON	33K	5%	1/6W
R106	1-249-441-11	CARBON	100K	5%	1/6W
R107	1-249-433-11	CARBON	22K	5%	1/6W
R109	1-249-417-11	CARBON	1K	5%	1/6W
R110	1-247-849-00	CARBON	5.6K	5%	1/6W
R113	1-249-428-11	CARBON	8.2K	5%	1/6W
R115	1-249-417-11	CARBON	1K	5%	1/6W
R116	1-249-417-11	CARBON	1K	5%	1/6W
R117	1-249-423-11	CARBON	3.3K	5%	1/6W
R118	1-249-429-11	CARBON	10K	5%	1/6W
R119	1-249-429-11	CARBON	10K	5%	1/6W
R127	1-249-429-11	CARBON	10K	5%	1/6W
R128	1-249-421-11	CARBON	2.2K	5%	1/6W
R129	1-249-430-11	CARBON	12K	5%	1/6W
R131	1-249-421-11	CARBON	2.2K	5%	1/6W
R134	1-215-446-00	CARBON	11K	5%	1/6W
R135	1-249-435-11	CARBON	33K	5%	1/6W
R137	1-215-440-00	CARBON	6.2K	5%	1/6W
R138	1-249-441-11	CARBON	100K	5%	1/6W
R139	1-249-433-11	CARBON	22K	5%	1/6W
R140	1-249-441-11	CARBON	100K	5%	1/6W
R141	1-249-441-11	CARBON	100K	5%	1/6W
R142	1-249-425-11	CARBON	4.7K	5%	1/6W
R143	1-249-425-11	CARBON	4.7K	5%	1/6W
R144	1-215-479-00	CARBON	270K	5%	1/6W
R145	1-249-404-00	CARBON	82	5%	1/6W
R146	1-215-472-00	CARBON	130K	5%	1/6W
R147	1-247-849-00	CARBON	5.6K	5%	1/6W
R148	1-249-421-11	CARBON	2.2K	5%	1/6W
R149	1-249-429-11	CARBON	10K	5%	1/6W
R150	1-249-430-11	CARBON	12K	5%	1/6W
R151	1-215-479-00	CARBON	270K	5%	1/6W
R152	1-249-404-00	CARBON	82	5%	1/6W
R153	1-215-472-00	CARBON	130K	5%	1/6W
R154	1-247-849-00	CARBON	5.6K	5%	1/6W
R155	1-249-417-11	CARBON	1K	5%	1/6W
R156	1-249-441-11	CARBON	100K	5%	1/6W
R157	1-247-887-00	CARBON	220K	5%	1/6W
R158	1-249-431-11	CARBON	15K	5%	1/6W
R159	1-247-887-00	CARBON	220K	5%	1/6W
R160	1-249-427-11	CARBON	6.8K	5%	1/6W
R161	1-249-421-11	CARBON	2.2K	5%	1/6W
R162	1-247-887-00	CARBON	220K	5%	1/6W
R163	1-215-466-00	CARBON	75K	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R164	1-249-430-11	CARBON	12K	5%	1/6W
R165	1-249-441-11	CARBON	100K	5%	1/6W
R166	1-249-408-11	CARBON	180	5%	1/6W
R167	1-249-429-11	CARBON	10K	5%	1/6W
R168	1-249-421-11	CARBON	2.2K	5%	1/6W
R169	1-249-414-11	CARBON	560	5%	1/6W
R170	1-215-436-00	CARBON	4.3K	5%	1/6W
R171	1-249-441-11	CARBON	100K	5%	1/6W
R172	1-249-410-11	CARBON	270	5%	1/6W
R173	1-249-423-11	CARBON	3.3K	5%	1/6W
R174	1-249-435-11	CARBON	33K	5%	1/6W
R201	1-249-417-11	CARBON	1K	5%	1/6W
R202	1-249-435-11	CARBON	33K	5%	1/6W
R206	1-249-441-11	CARBON	100K	5%	1/6W
R207	1-249-433-11	CARBON	22K	5%	1/6W
R209	1-249-417-11	CARBON	1K	5%	1/6W
R210	1-247-849-00	CARBON	5.6K	5%	1/6W
R213	1-249-428-11	CARBON	8.2K	5%	1/6W
R215	1-249-417-11	CARBON	1K	5%	1/6W
R216	1-249-417-11	CARBON	1K	5%	1/6W
R217	1-249-423-11	CARBON	3.3K	5%	1/6W
R218	1-249-429-11	CARBON	10K	5%	1/6W
R219	1-249-429-11	CARBON	10K	5%	1/6W
R227	1-249-429-11	CARBON	10K	5%	1/6W
R228	1-249-421-11	CARBON	2.2K	5%	1/6W
R229	1-249-430-11	CARBON	12K	5%	1/6W
R231	1-249-421-11	CARBON	2.2K	5%	1/6W
R234	1-215-446-00	CARBON	11K	5%	1/6W
R235	1-249-435-11	CARBON	33K	5%	1/6W
R237	1-215-440-00	CARBON	6.2K	5%	1/6W
R238	1-249-441-11	CARBON	100K	5%	1/6W
R239	1-249-433-11	CARBON	22K	5%	1/6W
R240	1-249-441-11	CARBON	100K	5%	1/6W
R241	1-249-441-11	CARBON	100K	5%	1/6W
R242	1-249-425-11	CARBON	4.7K	5%	1/6W
R243	1-249-425-11	CARBON	4.7K	5%	1/6W
R244	1-215-479-00	CARBON	270K	5%	1/6W
R245	1-249-404-00	CARBON	82	5%	1/6W
R246	1-215-472-00	CARBON	130K	5%	1/6W
R247	1-247-849-00	CARBON	5.6K	5%	1/6W
R248	1-249-421-11	CARBON	2.2K	5%	1/6W
R249	1-249-429-11	CARBON	10K	5%	1/6W
R250	1-249-430-11	CARBON	12K	5%	1/6W
R251	1-215-479-00	CARBON	270K	5%	1/6W
R252	1-249-404-00	CARBON	82	5%	1/6W
R253	1-215-472-00	CARBON	130K	5%	1/6W
R254	1-247-849-00	CARBON	5.6K	5%	1/6W
R255	1-249-417-11	CARBON	1K	5%	1/6W
R256	1-249-441-11	CARBON	100K	5%	1/6W
R257	1-247-887-00	CARBON	220K	5%	1/6W
R258	1-249-431-11	CARBON	15K	5%	1/6W
R259	1-247-887-00	CARBON	220K	5%	1/6W
R260	1-249-427-11	CARBON	6.8K	5%	1/6W
R261	1-249-421-11	CARBON	2.2K	5%	1/6W
R262	1-247-887-00	CARBON	220K	5%	1/6W
R263	1-215-466-00	CARBON	75K	5%	1/6W
R264	1-249-430-11	CARBON	12K	5%	1/6W

ELECTRICAL PARTS					
Ref.No.	Part No.	Description			
R265	1-249-441-11	CARBON	100K	5%	1/6W
R266	1-249-408-11	CARBON	180	5%	1/6W
R267	1-249-429-11	CARBON	10K	5%	1/6W
R268	1-249-421-11	CARBON	2.2K	5%	1/6W
R269	1-249-414-11	CARBON	560	5%	1/6W
R270	1-215-436-00	CARBON	4.3K	5%	1/6W
R271	1-249-441-11	CARBON	100K	5%	1/6W
R272	1-249-410-11	CARBON	270	5%	1/6W
R273	1-249-423-11	CARBON	3.3K	5%	1/6W
R274	1-249-435-11	CARBON	33K	5%	1/6W
R301	1-247-704-11	CARBON	220	5%	1/4W
R302	1-247-704-11	CARBON	220	5%	1/4W
R305	1-249-417-11	CARBON	1K	5%	1/6W
R306	1-249-431-11	CARBON	15K	5%	1/6W
R307	1-247-704-11	CARBON	220	5%	1/4W
R308	1-247-704-11	CARBON	220	5%	1/4W
R309	1-249-425-11	CARBON	4.7K	5%	1/6W
R313	1-249-404-00	CARBON	82	5%	1/6W
R314	1-247-688-11	CARBON	10	5%	1/4W
R315	1-249-433-11	CARBON	22K	5%	1/6W
R316	1-249-433-11	CARBON	22K	5%	1/6W
R317	1-249-429-11	CARBON	10K	5%	1/6W
R318	1-249-429-11	CARBON	10K	5%	1/6W
R319	1-249-427-11	CARBON	6.8K	5%	1/6W
R320	1-247-706-11	CARBON	330	5%	1/4W
R321	1-249-413-11	CARBON	470	5%	1/6W
R322	1-249-433-11	CARBON	22K	5%	1/6W
R323	1-249-441-11	CARBON	100K	5%	1/6W
R325	1-249-417-11	CARBON	1K	5%	1/6W
R326	1-215-460-00	METAL	43K	1%	1/6W
R328	1-247-700-11	CARBON	100	5%	1/4W
R329	1-247-700-11	CARBON	100	5%	1/4W
R330	1-249-438-11	CARBON	56K	5%	1/6W
R331	1-249-438-11	CARBON	56K	5%	1/6W
R401	1-247-717-11	CARBON	2.2K	5%	1/4W
R402	1-247-717-11	CARBON	2.2K	5%	1/4W
R403	1-247-717-11	CARBON	2.2K	5%	1/4W
R404	1-247-717-11	CARBON	2.2K	5%	1/4W
R405	1-249-425-11	CARBON	4.7K	5%	1/6W
R406	1-249-422-11	CARBON	2.7K	5%	1/6W
R407	1-249-420-11	CARBON	1.8K	5%	1/6W
R408	1-249-420-11	CARBON	1.8K	5%	1/6W
R409	1-249-408-11	CARBON	180	5%	1/6W
R410	1-249-420-11	CARBON	1.8K	5%	1/6W
R411	1-249-408-11	CARBON	180	5%	1/6W
R412	1-249-425-11	CARBON	4.7K	5%	1/6W
R413	1-249-437-11	CARBON	47K	5%	1/6W
R414	1-249-437-11	CARBON	47K	5%	1/6W
R415	1-249-429-11	CARBON	10K	5%	1/6W
R416	1-249-437-11	CARBON	47K	5%	1/6W
R417	1-249-437-11	CARBON	47K	5%	1/6W

ELECTRICAL PARTS					
Ref.No.	Part No.	Description			
R418	1-249-437-11	CARBON	47K	5%	1/6W
R419	1-247-887-00	CARBON	220K	5%	1/6W
R420	1-249-437-11	CARBON	47K	5%	1/6W
R421	1-249-429-11	CARBON	10K	5%	1/6W
R422	1-249-437-11	CARBON	47K	5%	1/6W
R423	1-249-437-11	CARBON	47K	5%	1/6W
R424	1-249-427-11	CARBON	6.8K	5%	1/6W
R425	1-249-435-11	CARBON	33K	5%	1/6W
R426	1-249-437-11	CARBON	47K	5%	1/6W
R427	1-249-425-11	CARBON	4.7K	5%	1/6W
R428	1-249-437-11	CARBON	47K	5%	1/6W
R429	1-249-429-11	CARBON	10K	5%	1/6W
R430	1-249-417-11	CARBON	1K	5%	1/6W
R431	1-249-417-11	CARBON	1K	5%	1/6W
R432	1-249-417-11	CARBON	1K	5%	1/6W
R433	1-249-425-11	CARBON	4.7K	5%	1/6W
R434	1-249-425-11	CARBON	4.7K	5%	1/6W
R435	1-249-429-11	CARBON	10K	5%	1/6W
R436	1-215-430-00	CARBON	2.4K	5%	1/6W
R437	1-215-402-00	CARBON	160	5%	1/6W
R439	1-249-417-11	CARBON	1K	5%	1/6W
RV101	1-230-630-11	RES, ADJ, CARBON 10K			
RV102	1-230-630-11	RES, ADJ, CARBON 10K			
RV103	1-230-630-11	RES, ADJ, CARBON 10K			
RV104	1-228-670-00	RES, VAR, SLIDE 20K (REC LEVEL (L))			
RV201	1-230-630-11	RES, ADJ, CARBON 10K			
RV202	1-230-630-11	RES, ADJ, CARBON 10K			
RV203	1-230-630-11	RES, ADJ, CARBON 10K			
RV204	1-228-670-00	RES, VAR, SLIDE 20K (REC LEVEL (R))			
RV401	1-228-991-00	RES, ADJ, CARBON 2.2K			
RV402	1-228-990-00	RES, ADJ, CARBON 1K			
RV403	1-228-991-00	RES, ADJ, CARBON 2.2K			
RV404	1-228-990-00	RES, ADJ, CARBON 1K			
RY301	1-515-519-00	RELAY			
S304	1-570-977-11	SWITCH, PUSH (3 KEY)(TAPE/DOLBY NR)			
S401	1-570-978-11	SWITCH, PUSH (1 KEY)(DUBBING SPEED)			
S901	1-571-036-11	SWITCH, LEAF (DETECTION SW)			
S902	1-570-715-11	SWITCH, LEAF (MOTOR)			
S903	1-570-716-11	SWITCH, LEAF (FWD)			
S904	1-570-715-11	SWITCH, LEAF			
S905	1-570-716-11	SWITCH, LEAF			
S906	1-571-037-11	SWITCH, LEAF (REC SW)			
T301	1-433-303-11	TRANSFORMER, BIAS OSCILLATION			

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